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L8	3	(matched adj filter) with (frequency adj spectrum) and vsb	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:16
S1	1	"10/005081"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 16:46

S2	0	(vsb or (Vestigial adj Sideband)) with ((intermediateadj freuqency) or IF) with demodulator with (quadrature or QAM or (Q adj channel)) with (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 18:35
S3	0	(vsb or (Vestigial adj Sideband)) same ((intermediateadj freuqency) or IF) same demodulator same (quadrature or QAM or (Q adj channel)) same (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 18:35
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S5	61	(vsb or (Vestigial adj Sideband)) and demodulator and (quadrature or QAM or (Q adj channel)) and (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 07:19
S6	3	("5521559" | "5706311" | "5881107").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:11
S7	3	("5521559" | "5706311" | "5881107").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:14
S8	7	Quadrature adj vestigial adj sideband	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:16
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S10	4	qvsb	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:17
S11	2371	vsb	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:17
S12	88	(vsb or (Vestigial adj Sideband)) and (quadrature or QAM or (Q adj channel)) and (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 19:18

S13	17	("4422175" | "4985900" | "5090024" | "5276711" | "5282019" | "5309482" | "5471508" | "5483369" | "5513221" | "5517526" | "5524126" | "5539782" | "5548617" | "5581585" | "5588025" | "5604741" | "5661528").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:34
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S20	2162	375/350	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 20:03

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... Single-Sideband (SSB) Modulation. **Vestigial-Sideband (VSB)** Modulation. ... Ideal **Demodulator**
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☐ **1.** RECEIVER CAPABLE OF DEMODULATING MULTIPLE DIGITAL MODULATION FORMATS
STROLLE, Christopher, H. / JAFFE, Steven, T. / SARNOFF CORPORATION, *PATENT COOPERATION TREATY APPLICATION*, Apr 1998
...in either **vestigial sideband (VSB)**, **quadrature** amplitude modulation (**QAM**), offset...including digital **vestigial sideband (VSB)** modulation, staggered **QAM** modulation, and **quadrature** phase shift...format such as **quadrature** amplitude modulation (**QAM**), **vestigial sideband** modulation (**VSB**), offset...
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EUROPEAN PATENT, Jul 1999
...256 level **quadrature** amplitude modulation (**QAM**) as well as **vestigial sideband** (**VSB**) and offset...combined **demodulator** FIG. 3 depicts...synchronizer and **matched**/Nyquist **filter** FIG. 5. depicts...diagram of a **QAM/VSB** timing processor...a second **filter** 306. Mixer...operates as a **quadrature demodulator** generating...demodulating **QAM** and **VSB** signals...
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PATENT COOPERATION TREATY APPLICATION, Apr 1998
...256 level **quadrature** amplitude modulation (**QAM**) as well as **vestigial sideband** (**VSB**) and offset...combined **demodulator** FIG. 3 depicts...synchronizer and **matched**/Nyquist **filter** FIG. 5. depicts...diagram of a **QAM/VSB** timing processor...a second **filter** 306. Mixer...operates as a **quadrature demodulator** generating...demodulating **QAM** and **VSB** signals...
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6. Matched filter
   **Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard
   John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark Michael /
   Discovision Associates,** *EUROPEAN PATENT APPLICATION,* Nov 1998
   ...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art
   is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a
   vestigial sideband in a 6 MHz...modulated by **vestigial sideband**
   modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...
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7. Signal Processing System
   **Claydon, Anthony Peter John / Gammack, Richard John / Discovision
   Associates,** *EUROPEAN PATENT,* Nov 1998
   ...However double **sideband** modulation...single or **vestigial** modulation...variant of
   QAM is **quadrature** phase shift...output of the **demodulator**, wherein...phase and
   quadrature signals...the loop **filter** accepts an...representation using **demodulator**
   subunits...low pass **filters** 3, to produce...phase and **quadrature** components...
   Full text available at patent office. For more in-depth searching go to ⬤ LexisNexis·
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8. Old ENEE 420 Tests 1 Fall 1998 Test 1
   Sep 2002
   ...constraints on the **filter**, H v (f), so that x c (t) is a **vestigial sideband (VSB)** AM
   modulated...standard coherent **demodulator** will properly...bandwidth #. A **Matched
   Filter** is used in the...signaling and the **matched filter** receiver. For...
   [http://www.ece.umd.edu/courses/enee420-2/Handouts/old_...]
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9. SINGLE OSCILLATOR COMPRESSED DIGITAL INFORMATION RECEIVER
   **STROLLE, Christopher, Hugh / JAFFE, Steven, Todd / LYONS, Paul, Wallace /
   Sarnoff Corporation,** *EUROPEAN PATENT,* Jan 1998
   ...and a M-ary **quadrature** amplitude modulation (**QAM**) modulator...contains a
   demodulator for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset
   QAM (OQAM) and...polyphase **filtering**. In this...resampled), the **demodulator** 106
   demodulates...FIG. 8. The **demodulator** contains a **matched filter** 800, a forward...
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10. Output interface for a digital communication system
    **Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard
    John / Jones, Anthony M. / Robbins, William P, / Barnes, Mark Michael /
    Discovision Associates,** *EUROPEAN PATENT APPLICATION,* Nov 1998
    ...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art
    is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a
    vestigial sideband in a 6 MHz...modulated by **vestigial sideband**
    modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...
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☐ **11.** Deinterleaving circuit
Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, Williams P. / Barnes, Mark Michael / Discovision Associates, *EUROPEAN PATENT APPLICATION*, Oct 1998
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit... **Full text available at patent office. For more in-depth searching go to** ● **LexisNexis·**
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☐ **12.** Reed-Solomon decoding circuit and method
Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark Michael / Discovision Associates, *EUROPEAN PATENT APPLICATION*, Oct 1998
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit... **Full text available at patent office. For more in-depth searching go to** ● **LexisNexis·**
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☐ **13.** Analog-to-digital converter for digital receiver
Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark / Discovision Associates, *EUROPEAN PATENT APPLICATION*, Oct 1998
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit... **Full text available at patent office. For more in-depth searching go to** ● **LexisNexis·**
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☐ **14.** Understanding and Enhancing Sensitivity in Receivers for Wireless Applic\ ations
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...26 Figure 15. **Filter** Response Equated to Brick-Wall **Filter** Response...de-sensitizing the baseband **demodulator**. The system can either be...incorporate some form of DC notch **filtering** after the mixer. Technical...

Refine you
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channel ch;
clock rate
control circ
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phase dete
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☐ **15.** Signal processing system
**Claydon, Anthony Peter John / Gammack, Richard John / DISCOVISION
ASSOCIATES,** *EUROPEAN PATENT,* Dec 1996
...carriers in **quadrature**. A transmitted **QAM** signal can...transmit **filter** and T
is...However double **sideband** modulation...single or **vestigial** modulation...variant of
QAM is **quadrature** phase shift...output of the **demodulator**, wherein...phase and
quadrature signals...the loop **filter** accepts an...
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☐ **16.** Signal processing apparatus and method
**Claydon, Anthony P.J. / Macfarlane, Charles D. / Gammack, Richard J. / Jones,
Anthony M. / Robbins, William P. / Barnes, Mark / DISCOVISION ASSOCIATES,**
EUROPEAN PATENT APPLICATION, Dec 1996
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art
is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a
vestigial sideband in a 6 MHz...modulated by **vestigial sideband**
modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...
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☐ **17.** METHOD AND APPARATUS FOR PERFORMING BANDEDGE EQUALIZATION
STROLLE, Christopher, H. / SARNOFF CORPORATION, *PATENT COOPERATION
TREATY APPLICATION,* Dec 1997
...an M-ary **quadrature** amplitude modulation (**QAM**) modulator...contains a
demodulator for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset
QAM (OQAM) and the like. The **demodulator** 104 demodulates...compliment of the
matched filter. As such...a double **sideband**, amplitude...
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☐ **18.** SINGLE OSCILLATOR COMPRESSED DIGITAL INFORMATION RECEIVER
**STROLLE, Christopher, Hugh / JAFFE, Steven, Todd / LYONS, Paul, Wallace /
DAVID SARNOFF RESEARCH CENTER, INC.,** *PATENT COOPERATION TREATY
APPLICATION,* Sep 1996
...and a M-ary **quadrature** amplitude modulation **QAM**) modulator...contains a
demodulator for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset
QAM (OQAM) and...polyphase **filtering**. In this...resampled), the **demodulator** 106
demodulates...FIG. 8. The **demodulator** contains a **matched filter** 800, a forward...
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☐ **19.** A modem
Chen, Walter Y. / TEXAS INSTRUMENTS INCORPORATED, *EUROPEAN PATENT
APPLICATION,* Mar 1998
...transformer and **filter** 48, analog...bands and a **quadrature** amplitude modulation
(**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which
are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation
and **Quadrature** Phase Shift...of special **filters** placed at...
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☐ **20.** Multicode modem with a plurality of analogue front ends
**Polley, Michael O. / Timm, William C. / Riley, Terence J. / TEXAS INSTRUMENTS
INCORPORATED,** *EUROPEAN PATENT APPLICATION,* Mar 1998
...transformer and **filter** 48, analog...bands and a **quadrature** amplitude modulation
(**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which
are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation
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☐ **21.** Multimode modem, and protocols therefor
Wu, Song / TEXAS INSTRUMENTS INCORPORATED, *EUROPEAN PATENT APPLICATION*, Jan 1998
...transformer and **filter** 48, analog-to-digital...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband** (**VSB**) modulation and **Quadrature** Phase Shift...of special **filters** placed at...
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☐ **22.** A multimode digital modem
Timm, William C. / Chen, Walter Y. / Frantz, Gene A. / Garcia, Domingo G. / Lu, Xiaolin / Mannering, Dennis G. / Polley, Michael O. / Riley, Terence J. / Shaver, Donald P. / Wu, Song S., *EUROPEAN PATENT APPLICATION*, Nov 1997
...transformer and **filter** 48, analog-to-digital...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband** (**VSB**) modulation and **Quadrature** Phase Shift...of special **filters** placed at...
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   Philips Journal of Research, Volume 50, Issues 1-2, 1996, Pages 131-157
   David A. Bryan, Monisha Ghosh and Samir N. Hulyalkar
   Abstract

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   Signal Processing: Image Communication, Volume 5, Issues 5-6, December 1993, Pages 405-415
   Marc Moeneclaey and Mark Van Bladel
   Abstract

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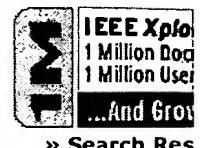[Home] [Search] [Journals] [Books] [Abstract Databases] [My Profile] [Alerts]   ⑦ Help

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Qi Pan; Green, R.J.;
Communications, IEEE Transactions on , Volume: 44 , Issue: 10 , Oct. 1996
Pages:1329 - 1334

[Abstract]   [PDF Full-Text (564 KB)]   IEEE JNL

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2 **Comparison of M²-QAM and M-PAM VSB single-carrier systems for digital TV transmission via CATV**
Van Bladel, M.; Moeneclaey, M.;
Communications and Vehicular Technology in the Benelux, 1994., IEEE Second Symposium on , 2-3 Nov. 1994
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